

**Notice of Allowability**

Application No.

10/619,261

Examiner

Tat Chi Chio

Applicant(s)

YAMASAKI ET AL.

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 7/25/2007.
2. ☒ The allowed claim(s) is/are 1-3, 5-8, 10-16, 18-21, and 23-26.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted:
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

## DETAILED ACTION

### *Allowable Subject Matter*

1. The following is an examiner's statement of reasons for allowance:

The examiner deems the combination of Aoki et al. (US 6,408,338) and Moon et al. (US 5,771,331) to be the closest prior arts of record.

**Consider claims 1 and 14**, the prior art do not disclose, suggest, or teach wherein the data adding means additionally supplies, when the picture data provisionally stored in the stream buffer have been read by the decoding means to before last three frames, a predetermined amount of picture data beginning at the head of a GOP including picture data in the remaining third frame.

**Consider claims 6 and 19**, the prior arts do not disclose, suggest, or teach the data adding means additionally supplies an amount of picture data defined by  $(DTS\_c - vbv\_delay\_c) - (DTS\_f - vbv\_delay\_f)$  where  $DTS\_c$  is DTS (decoding time stamp) in a top picture in the current GOP,  $vbv\_delay\_c$  is a VBV delay of the top picture,  $DTS\_f$  is DTS in the top picture in the current GOP and  $vbv\_delay\_f$  is a VBV delay of the top picture.

**Consider claims 8 and 21**, the prior arts do not disclose, suggest, or teach the data adding means acquires the picture data by calculating an additional amount of data ( $data\_add$ ) defined as  $(P + Max\_GOP - 1) \cdot data\_sub - 1frame + vbv\_occupancy$  where  $P$  is a number of frames in the current GOP,  $Max\_GOP$  is a maximum number of pictures in a GOP,  $data\_sub - 1frame$  is an amount of picture data read for one frame

Art Unit: 2621

time in the normal-speed reproduction and vbv\_occupancy is a data stored in a VBV (video buffering verifier) buffer, and starting reading picture data from a recording position, based on data\_add, in the recording medium.

**Consider claims 12 and 25**, the prior arts do not disclose, suggest, or teach the data adding means additionally supplies, when picture data in a current GOP whose all grouped pictures are provisionally recorded in the stream buffer have been read by the decoding means to before last three frames, picture data in a previous GOP laid before at least the current GOP to the stream buffer sequentially starting with the top picture in the previous GOP and, in addition, six frames of picture data beginning at the head of the current GOP to the stream buffer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

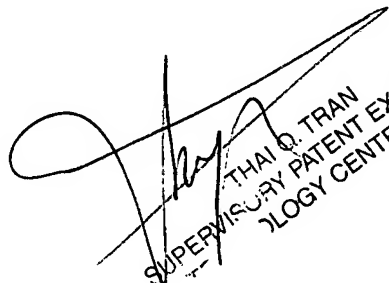
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tat Chi Chio whose telephone number is (571) 272-9563. The examiner can normally be reached on Monday - Thursday 8:30 AM-6:00 PM EST.

Art Unit: 2621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on (571)-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TCC

  
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SUPERVISORY PATENT EXAMINER  
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